

VMware Horizon 7: Install, Configure, Manage [V7]

Duration: 5 Days

Overview:

This five-day, hands-on course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your skills in installing, configuring, and managing VMware Horizon® 7 through a combination of lecture and hands-on labs. You will learn how to configure and deploy pools of virtual machines, how to manage access and security of the machines, and how to provide a customised desktop environment to end users. Product Alignment: VMware Horizon 7

This course prepares you for the following certification: VMware Certified Professional 7- Desktop and Mobility (VCP7-DTM)

Target Audience:

Technical personnel who work in the IT departments of end-customer companies and people who are responsible for the delivery of remote or virtual desktop services

Pre-requisites:

Customers attending this course should have at a minimum the following VMware infrastructure skills:

- User VMware vSphere® Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter Server® and access the guest operating system
- Create snapshots of virtual machines
- Configure guest customisation specifications
- Modify virtual machine properties
- Convert a virtual machine into a template

Module 1: Course Introduction

- Review course goals
- Review course objectives
- Review the course outline
- Find additional resources after this course

Module 2: Introduction to VMware Horizon

- Recognise the features and benefits of VMware Horizon
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure

Module 3: View Connection Server

- Identify the VMware vSphere® requirement for a connection server
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
- Configure View Connection Server

Module 4: VMware Horizon Pools and Desktops

- Outline the process and choices in setting up VMware Horizon 7 virtual machines
- Compare the remote display that are available in VMware Horizon
- List the ports that must be opened in the machine's firewall for VMware Horizon operations
- Outline the configuration choices when installing Horizon Agent
- Identify the steps to set up a template for desktop pool deployment
- Describe how information on the users and Groups page can be used to control and monitor View users
- Explain the hierarchy of global policies, pool-level policies, and user-level policies
- List the View Group Policy administrative (ADM) template files

Module 9: Creating RDS Desktop and Application Pools

- Explain the difference between an RDS desktop pool and an automated pool
- Describe how a user can access a single application by using the RDS application pool
- Describe the relationship between an RDS host, a farm, and an application pool
- Create an RDS desktop pool and an application pool
- Explain how the View Composer linked-clone technology can automate the build-out of RDS server farms
- Describe the load-balancing options for RDS hosts

Module 10: VMware Horizon 7 Authentication

- Compare the authentication options that view connection Server supports
- Describe the purpose of TrueSSO single sign-on
- Identify TrueSSO single sign-on components

Module 11: Managing VMware Horizon Security

- Compare tunnels and direct connections for client access to desktops
- Compare the benefits of using either VMware Horizon Security Server or Access Point in the DMZ
- Identify where the tunnel endpoints are in a security server or an Access Point implementation
- Identify the tunnel endpoints when the security gateway is not used
- Explain a direct connection
- List the advantages of direct connections

Module 12: Profile Management Using User Environment Manager

- Identify the use cases and benefits of using User Environment Manager
- Describe User Environment Manager and its architecture
- Explain the User Environment Manager functional areas and their benefits
- Explain User Environment Manager profile management and its features
- Use the User Environment Manager management console and application profiler to manage user personalisation and application configuration

- Deploy a virtual machine from a template

Attendees should have at a minimum the following Microsoft Windows System administration experience. Configure Active Directory Services, including DNS, DHCP and time synchronisation. Restrict user activities by implementing Group Policy objects. Configure Windows Systems to allow Remote Desktop Connections. Build an ODBC connection to an SQL Server Database.

Course Completion:

After completing this course, students will be able to:

- Identify VMware Horizon components
- Install and configure View Connection Server
- Install and configure virtual desktops
- Configure and manage VMware Horizon® Client™ systems
- Configure and manage pools of physical and virtual machines
- Configure and manage pools of linked-clone desktops
- Configure and manage automated pools of instant clones
- Configure and manage Remote Desktop Services (RDS) pools of desktops and applications
- Use Horizon Administrator to configure the VMware Horizon environment
- Configure secure access to virtual desktops
- Use VMware User Environment Manager™ to manage user personalisation and application configurations
- Describe steps to deploy profile management
- Use VMware App Volumes to provision and manage applications
- Manage the performance and scalability of a VMware Horizon deployment

Module 5: Horizon Client Options

- Describe the requirements for a Horizon Client installation
- Explain USB redirection and options
- Describe the power state for desktops
- Define and compare a thin client with a system running Horizon Client
- Discuss the benefits of Virtual Printing
- Explain the Virtual Printing Architecture
- Describe the configuration options for Virtual Printing
- Explain the location-based printing feature

Module 6: Creating Automated Pools of Full Virtual Machines

- Recognise how an automated pool operates
- Compare dedicated-assignment and floating-assignment pools
- Outline the steps to create an automated pool
- Examine the entitlement of desktops in automated pools

Module 7: Creating and Managing Linked-Clone Desktops

- Describe the VMware linked-clone technology
- Explain why both a parent virtual machine and a snapshot must be used to create linked clones
- Outline the system requirements for View Composer
- Describe the relationship between a persistent disk and the system disk
- Outline the steps necessary to set up an automated desktop pool that uses linked clones
- Compare the purpose of the parent and the replica virtual machines
- Compare the linked-clone management operations
- Describe the management operations for persistent disks

Module 8: Creating and Managing Instant-Clone Pools

- Identify the advantages of instant clones
- Distinguish view composer clones from instant clones
- Identify the requirements of instant clones
- Describe the types of instant-clone virtual machines
- Explain how folders are used to delegate pool administration
- Outline the steps to set up an automated pool that uses instant clones
- Describe instant-clone limitations in VMware Horizon 7
- Describe the creation of instant clones
- Set up automated pool of instant clones

Module 13: Using App Volumes to Provision and Manage Applications

- Explain how App Volumes works
- Identify the features and benefits of App Volumes
- Identify the interface elements of App Volumes
- Install and configure App Volumes

Module 14: Command-Line Tools and Backup Options

- Describe key View Connection Server features that are available as command-line options with vdmadmin command
- Explain the purpose of kiosk mode for client systems and how it is configured
- Explain why you might want to limit the domains that View Connection Server makes available to end users
- Identify the log locations for each VMware Horizon component

Module 15: VMware Horizon Performance and Scalability

- Describe the purpose of replica server
- Compare a replica server to a standard connection server
- Explain how multiple VMware Horizon servers maintain synchronisation
- List several best practices for multiserver deployment in a pod
- Describe how a load-balancing capability might improve VMware Horizon performance